## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10

Source:

Date Processed by STIC:

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**IFWP** 

RAW SEQUENCE LISTING DATE: 01/19/2007
PATENT APPLICATION: US/10/576,051A TIME: 09:59:56

Input Set: A:\PN-4-33424A-USN-Sequence-Listing-ST25-Final-Version.txt

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3 <110> APPLICANT: Novartis AG et al.
      5 <120> TITLE OF INVENTION: GENES INVOLVED IN NEURODEGENERATIVE DISORDERS
      7 <130> FILE REFERENCE: PN/4-33424A/USN
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/576,051A
C--> 10 <141> CURRENT FILING DATE: 2006-04-18
                                                                     (PJ.6)
     12 <150> PRIOR APPLICATION NUMBER: US60/513241
     13 <151> PRIOR FILING DATE: 2003-10-22
     15 <160> NUMBER OF SEQ ID NOS: 40
     17 <170> SOFTWARE: PatentIn version 3.2
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 2781
     21 <212> TYPE: DNA
     22 <213> ORGANISM: Homo sapiens
     24 <220> FEATURE:
     25 <221> NAME/KEY: misc feature
     26 <222> LOCATION: (546)..(546)
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     34 egeettigie tieeegette eeeetteett titeaaaage eaagaggtaa tiattiggte
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     36 tttgtgcaag gcaaacctct ccagatgcca cttccaaata taggctctca ttaacaccag
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     38 aggetggeet ggtgtggtge agggeggeee tteettetee tggeggaeae tgtgteeeeg
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     40 cgcgctggcg ctgcaccaca tctggaagcc aggcgggcag ggcagagacc ccggctcctg
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     42 egeceeteet ageteecaga gagegtggat egegggeggg geteacegag egaggttace
     44 tctcttgaaa atacttaaac acttttttc ctctccactg aaatctcaaa aaacagccca
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     46 ttttgaacca gaataattta gtctgacaac agattcttcc tctgttcaca gctgtcccag
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W--> 48 aggagngagc tgaaatctga acctctcagc tgtgattgga tctttcttgc aaaagagagg
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     50 aaaaaaaaac cctcccagcc aaaacgggct cagttcgtaa aggagccggg tgacttcaga
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                                                                              720
     52 ggcgccggcc cgtccgtctg ccgcacctga gcacggcccc tgcccgagcc tggcccgccg
     54 cgatgctgta gggaccgccg tgtcctcccg ccggaccgtt atccgcgccg ggcgcccgcc
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     56 agaccegetg geaagatgee gegeteette etggteaaga ageattteaa egeeteeaaa
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     60 agttacteca tgeetgteat accaeaacea gagateetea geteaggage atacageece
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     62 atcactgtgt ggactaccgc tgctccattc cacgcccagc tacccaatgg cctctctcct
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     64 ctttccggat actcctcatc tttggggcga gtgagtcccc ctcctccatc tgacacctcc
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     66 tecaaggace acagtggete agaaageeee attagtgatg aagaggaaag actacagtee
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     70 acctattcaa ctttttctgg gctggccaaa cataagcagc tgcactgcga tgcccagtct
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     72 agaaaatett teagetgtaa ataetgtgae aaggaatatg tgageetggg egeeetgaag
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     74 atgcatattc ggacccacac attaccttgt gtttgcaaga tctgcggcaa ggcgttttcc
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     76 agaccetggt tgcttcaagg acacattaga actcacacgg gggagaagec tttttcttgc
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     78 cctcactgca acagagcatt tgcagacagg tcaaatctga gggctcatct gcagacccat
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Input Set : A:\PN-4-33424A-USN-Sequence-Listing-ST25-Final-Version.txt

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                                                                      1680
84 actegaacag aatgeattte tteacteega ageeaaatga caaataaagt eeaaaggeat
86 tttctcctgt gctgaccaac caaataatat gtatagacac acacacatat gcacacacac
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88 acacacacac ccacagagag agagctgcaa gagcatggaa ttcatgtgtt taaagataat
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90 cctttccatq tqaaqtttaa aattactata tatttqctqa tqqctaqatt qagagaataa
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92 aaqacaqtaa cctttctctt caaaqataaa atqaaaaqca cattqcatct tttcttccta
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94 aaaaaatgca aagatttaca ttgctgccaa atcatttcaa ctgaaaagaa cagtattgct
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96 ttgtaataga gtctgtaata ggatttccca taggaagaga tctgccagac gcgaactcag
98 qtgccttaaa aagtattcca agtttactcc attacatgtc ggttgtctgg ttgccattgt
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100 tgaactaaag cctttttttg attacctgta gtgctttaaa gtatattttt aaaagggagg
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104 tttttgccaa ttaacagtat gtgccttggg ggaggaggga aagattagct ttgaacattc
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106 ctggcgcatg ctccattgtc ttactatttt aaaacatttt aataattttt gaaaattaat
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108 taaagatggg aataagtgca aaagaggatt cttacaaatt cattaatgta cttaaactat
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110 ttcaaatgca taccacaaat gcaataatac aatacccctt ccaagtgcct ttttaaattg
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112 tatagttgat gagtcaatgt aaatttgtgt ttatttttat atgattgaat gagttctgta
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114 tgaaactgag atgttgtcta tagctatgtc tataaacaac ctgaagactt gtgaaatcaa
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116 tgtttctttt ttaaaaaaca attttcaagt tttttttaca ataaacagtt ttgatttaaa
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118 atctcgtttg tatactattt tcagagactt tacttgcttc atgattagta ccaaaccact
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120 gtacaaagaa ttgtttgtta acaagaaaaa aatgaataat gcttattatg catctgaagt
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126 <211> LENGTH: 268
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128 <213> ORGANISM: Homo sapiens
130 <400> SEQUENCE: 2
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140 Leu Tyr Glu Ser Tyr Ser Met Pro Val Ile Pro Gln Pro Glu Ile Leu
144 Ser Ser Gly Ala Tyr Ser Pro Ile Thr Val Trp Thr Thr Ala Ala Pro
148 Phe His Ala Gln Leu Pro Asn Gly Leu Ser Pro Leu Ser Gly Tyr Ser
149 65
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                       70
152 Ser Ser Leu Gly Arg Val Ser Pro Pro Pro Pro Ser Asp Thr Ser Ser
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                                       90
156 Lys Asp His Ser Gly Ser Glu Ser Pro Ile Ser Asp Glu Glu Arg
               100
                                   105
160 Leu Gln Ser Lys Leu Ser Asp Pro His Ala Ile Glu Ala Glu Lys Phe
                               120
164 Gln Cys Asn Leu Cys Asn Lys Thr Tyr Ser Thr Phe Ser Gly Leu Ala
       130
                           135
                                               140
168 Lys His Lys Gln Leu His Cys Asp Ala Gln Ser Arg Lys Ser Phe Ser
172 Cys Lys Tyr Cys Asp Lys Glu Tyr Val Ser Leu Gly Ala Leu Lys Met
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Input Set: A:\PN-4-33424A-USN-Sequence-Listing-ST25-Final-Version.txt

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180 Ala Phe Ser Arg Pro Trp Leu Leu Gln Gly His Ile Arg Thr His Thr
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                                                     205
184 Gly Glu Lys Pro Phe Ser Cys Pro His Cys Asn Arg Ala Phe Ala Asp
                            215
185
        210
                                                220
188 Arg Ser Asn Leu Arg Ala His Leu Gln Thr His Ser Asp Val Lys Lys
189 225
                        230
                                            235
192 Tyr Gln Cys Lys Asn Cys Ser Lys Thr Phe Ser Arg Met Ser Leu Leu
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201 <211> LENGTH: 4325
202 <212> TYPE: DNA
203 <213> ORGANISM: Homo sapiens
205 <400> SEQUENCE: 3
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208 taateteece ettggtgeag etgettttga agtgagttte etegeeagag eeceggetgg
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210 acacgcagcg gctcgcatcg cagagcgcag cgccggcgcg gggccgcgag aacgcagcgc
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212 aggggagcag cccgaggcgg acaccgcgag ccgcccggca ctcccgcagt ccagccggct
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214 cctctagccc ggccacggct ccgctgcggg ccacccagga ttactcgcgt ctggctccag
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216 gegeegagaa ggegegetgg gegeeegtgg eegeegegee ageteeteet eeteeegetg
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                                                                          420
218 ctcctgctcc cggggcgagc gcgcagcccc gagcccgccc cgcgcctccc ggagccctcc
220 ccccqctqc tcccatqcqc qcqqqtqqqt catqaqcaca qcqccctcqc tttctqccct
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224 tgcctggacc agcgcgctct ctggaaatag ctccggcccc ggcccaggct cgtccccggc
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226 eggeageace aageettttg tgeaegeegt geeeeeetet gaeeeeetge geeaggeeaa
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228 ccgcctgcca atcaaggtgc tgaagatgct gacggcacga actggccaca ttttgcaccc
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230 cgagtacctg cagcccctgc cttccacgcc ggtcagcccc atcgaggtaa ggaccctctc
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232 tetggatege actgggacea etaceetgge tgecaeceta gggetttett ttteteggga
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236 cttccgtacc tcaaaactag ggcggaaaag ggggaggaag tggaatgggg cgtgcatgct
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244 gcccttactc tgaagaatta aggagtgttt gtggggaggg ggtacagttc tgggtctagg
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246 aaccgaaaac caaaacattt tgctctttaa aaatctagtt agcgctcaga gagggcagga
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248 aagatgetge tgggggtggt ggttgggegg ggggageaat etgetgeett teceaaegge
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258 accectegee etectecaaa etetectegg ttgeetecaa egggggegge gegggeggtg
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260 ccggcggcgg tgctgcgggc gacaaggaca ccaaatcggg ccccctgaag ctgagcgaca
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262 teggegtgga ggacaagteg agttteaage egtacteeaa acceggeteg gataagaagg
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266 cggagaagtc gggattccgg gtaccgagcg ccacctgcca gccattcacg cccaggacag
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276 tgggctegga etgeggeggt teateggget ecageteegg eteeggeeee agegegeeea
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278 cctcctcctc agtgttgggc tctgggctgg tggctcccgt gtcaccctac aagccgggcc
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280 agacagtgtt coctetgcct cocgogggta tgacctaccc aggcagcctg gccggggcct
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334 aaaaqaaaaa qaaaaaattc tattccaaaa cctcatttgc cttattttgt tctttaaaaq
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355 <212> TYPE: PRT
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Input Set : A:\PN-4-33424A-USN-Sequence-Listing-ST25-Final-Version.txt

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372	Glu	Ala	Phe	Glu	Pro	Gln	Lys	Pro	Gly	Phe	$\mathtt{Tyr}$	Lys	Gly	Phe	His	Phe
373		50					55					60				
376	Phe	Leu	Cys	Val	Thr	Leu	Pro	Pro	His	Arg	Leu	Thr	Pro	Gln	Leu	Asp
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385	_	•		100					105	-				110		
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389		4	115	-		-	-	120	-	•	•		125	•	•	-
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393		130	-1-		1		135	-1-				140	1			<b>-</b>
	Lvs		Ser	Phe	Lvs	Pro	Tyr	Ser	Lvs	Pro	Glv		Asn	Lvs	Lvs	G111
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401	FIO	Gry	GIY	GIY	165	GIY	GIY	GIY	GIY	170	GIY	Gry	Gry	Gry	175	Gry
	C1**	τ <i>τ</i> ~ 1	Cor	Cor		Tara	Cor	C1.	Dho		77-7	Dro	C02	ח ה		Cara
	GIA	Val	ser		GIU	паг	Ser	GIY		Arg	Vai	PIO	ser		TIII	Cys
405	<b>~1</b> -	D	Dh.	180	D	7	Mla sa	<b>~1</b>	185	Desa		Com	Com	190	C	77.
	GIII	PIO		TIIL	PIO	Arg	Thr	_	ser	PIO	Ser	ser		Ala	ser	Ala
409	~ .		195	<b>~1</b>	<b>~</b> 1		<b>-</b>	200			<b>~1</b>	<b>~1</b>	205	D	<b>~</b> 1	<b>~</b> 1
	Cys		Pro	GIY	GIY	Met	Leu	ser	ser	Ата	GIY		Ala	Pro	GIU	GIY
413		210		<b>.</b>	<b>.</b>		215		T	<b>~</b> 3	<b>~</b> 1	220	<b>~</b> 1	•	, ما	m1
	_	Asp	Asp	ьуs	ьуs	_	Thr	Asp	vaı	GIA	_	GIY	GIY	ьуs	GIY	
417		~-		_		230	~-	~-	_	_,	235	_			~1	240
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421		_	_		245			_		250		_		•	255	_
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429			275					280					285			_
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433		290					295					300				
436	Leu	Gly	Ser	Gly	Leu	Val	Ala	Pro	Val	Ser	Pro	Tyr	Lys	Pro	Gly	Gln
437						310					315					320
440	Thr	Val	Phe	Pro	Leu	Pro	Pro	Ala	Gly	Met	Thr	Tyr	Pro	Gly	Ser	Leu
441					325					330					335	
444	Ala	Gly	Ala	Tyr	Ala	Gly	Tyr	${\tt Pro}$	Pro	Gln	Phe	Leu	Pro	His	Gly	Val
445				340					345					350		
448	Ala	Leu	Asp	Pro	Thr	Lys	Pro	Gly	Ser	Leu	Val	Gly	Ala	Gln	Leu	Ala
449			355					360				-	365			
452	Ala	Ala	Ala	Ala	Gly	Ser	Leu	Gly	Cys	Ser	Lys	Pro	Ala	Gly	Ser	Ser
453		370			-		375	_			-	380		-		
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457				-		390					395					400
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Input Set : A:\PN-4-33424A-USN-Sequence-Listing-ST25-Final-Version.txt

Output Set: N:\CRF4\01192007\J576051A.raw

## **Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 546

Seq#:21; N Pos. 13,20,34,53,59 Seq#:22; Xaa Pos. 3,5,10,16,18 VERIFICATION SUMMARY

DATE: 01/19/2007 TIME: 09:59:57

PATENT APPLICATION: US/10/576,051A

Input Set : A:\PN-4-33424A-USN-Sequence-Listing-ST25-Final-Version.txt

Output Set: N:\CRF4\01192007\J576051A.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:540 L:2962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0

L:3078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0

M:341 Repeated in SeqNo=22